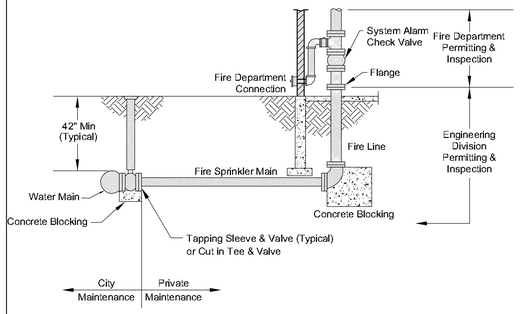
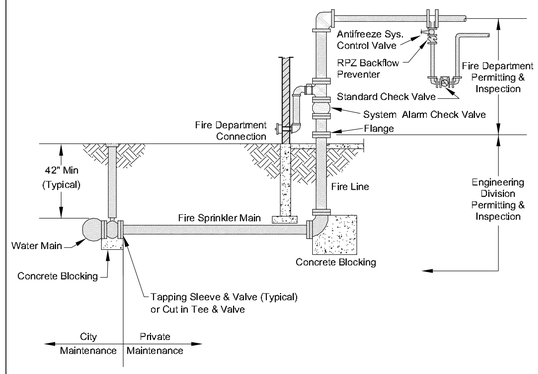


Notes:

1. All Fitings Must be Mechanically Anchored & Blocked.
2. All Below Grade / Ground construction is Permitted & Inspected by the Engineering Division(Including Remote FDC).
3. All Above Grade / Ground Construction is Permitted & Inspected by Fire Department.
4. All Concrete Blocking shall be Minimum 2000 psi.
5. Underground Test Reports are Required for Fire Sprinkler Lead and FDC by a Licensed Installer.

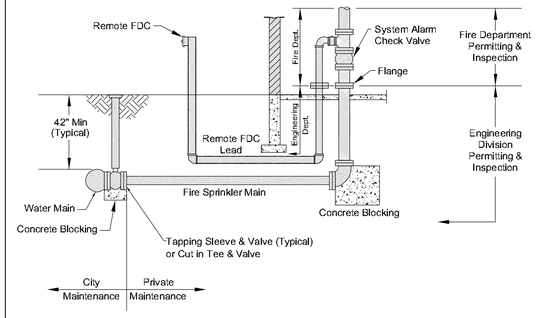
MESQUITE TEXAS Well. Texas. Service. Public Works	TYPICAL FIRE SPRINKLER YARD PIPING (HAZARD CLASS 1- LOW HAZARD)	GENERAL DESIGN STANDARDS WATER UTILITIES	
		SCALE - N.T.S.	DRAWN BY: NCJ
		APPROVAL DATE: 02/01/10-L	SHEET: W-14



Notes:

1. All Fitings Must be Mechanically Anchored & Blocked.
2. All Below Grade / Ground construction is Permitted & Inspected by the Engineering Division(Including Remote FDC).
3. All Above Grade / Ground Construction is Permitted & Inspected by Fire Department.
4. All Concrete Blocking shall be a Minimum of 2000 psi
5. Underground Test Reports are Required for Fire Sprinkler Lead and FDC by a Licensed Installer.

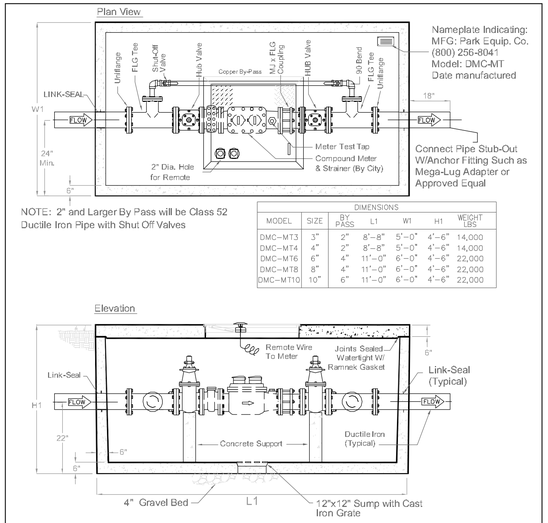
MESQUITE TEXAS Well. Texas. Service. Public Works	TYPICAL FIRE SPRINKLER YARD PIPING (HAZARD CLASS 6- HIGH HAZARD)	GENERAL DESIGN STANDARDS WATER UTILITIES	
		SCALE - N.T.S.	DRAWN BY: NCJ
		APPROVAL DATE: 02/01/10-L	SHEET: W-15



Notes:

1. All Fitings Must be Mechanically Anchored & Blocked.
2. All Below Grade / Ground construction is Permitted & Inspected by the Engineering Division(Including Remote FDC).
3. All Above Grade / Ground Construction is Permitted & Inspected by Fire Department. (Including Remote FDC that Remains in the Building and Above Ground
4. All Concrete Blocking shall be Minimum 2000 psi.
5. Underground Test Reports are Required for Fire Sprinkler Lead and FDC by a Licensed Installer.

MESQUITE TEXAS Well. Texas. Service. Public Works	REMOTE FDC AND FIRE LINE (HAZARD CLASS1- LOW HAZARD)	GENERAL DESIGN STANDARDS WATER UTILITIES	
		SCALE - N.T.S.	DRAWN BY: NCJ
		APPROVAL DATE: 02/01/10-L	SHEET: W-16

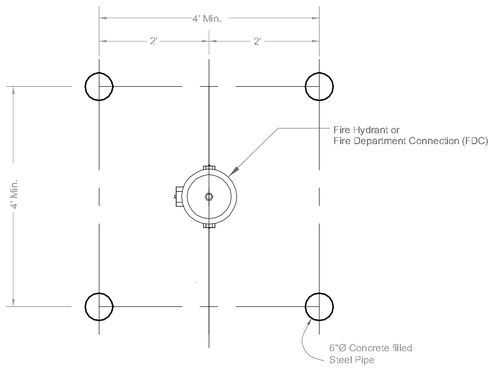


MODEL	SIZE	DIMENSIONS BY PASS	L1	W1	H1	WEIGHT LBS
DMC-MT3	3"	2"	8'-8"	5'-0"	4'-6"	14,000
DMC-MT4	4"	2"	8'-8"	5'-0"	4'-6"	14,000
DMC-MT6	6"	4"	11'-0"	6'-0"	4'-6"	22,000
DMC-MT8	8"	4"	11'-0"	6'-0"	4'-6"	22,000
DMC-MT10	10"	6"	11'-0"	6'-0"	4'-6"	22,000

Notes:

1. Vault Concrete: Class 1 Concrete with Design Strength of 4500 PSI at 28 Days. Unit is of Monolithic Construction at Floor and First Stage of Wall with Sectional Riser Depth.
2. Vault Reinforcement: Grade 60 Reinforced. Steel Rebar Conforming to ASTM A615 on Required Centers or Equal.
3. Vault Hatchway: 36" x 36" Aluminum hatchway (BILCO PCM-4). Hinged ¼" Aluminum Diamond Plate Cover, with ¼" Extruded Aluminum Frame. Hatch to be Furnished with 316 Stainless Steel Snap Lock & Brass Hinges.

MESQUITE TEXAS Well. Texas. Service. Public Works	3" THRU 10" DOMESTIC TURBINE WATER METER ASSEMBLY	GENERAL DESIGN STANDARDS WATER UTILITIES	
		SCALE - N.T.S.	DRAWN BY: NCJ
		APPROVAL DATE: 02/01/10-L	SHEET: W-17



Notes:

1. Bollards are not a Subsitute for Proper Traffic Flow Layout and should be used Only After Options for Relocation of Hydrant Have Proved Infeasible.
2. Bollards shall only be Used in Low Speed Areas Where Speed Limit is 10 MPH or Lower (Such as Around Loading Docks and in Parking Lots).
3. Bollards shall not be Used in City Street Right-of-Way or Alley Right-of-Way.
4. 5' of Bollard shall Extend Above Paving to Allow Viewing of Bollard in Rear View Mirrors.
5. 6" Diameter Steel Pipe, Schedule 40, 0.28" Wall Thickness, Filled with Concrete.
6. 8' Length (5' Above Paving, 3' Below Paving), Set 18" Diameter Pier.
7. Bollard shall be Painted Yellow.

MESQUITE TEXAS Well. Texas. Service. Public Works	BOLLARDS FOR FIRE HYDRANT OR FDC	GENERAL DESIGN STANDARDS WATER UTILITIES	
		SCALE - N.T.S.	DRAWN BY: NCJ
		APPROVAL DATE: 02/01/10-L	SHEET: W-18

REVISION TABLE		
NO.	REVISION	DATE

WATER SHEET THREE		
ENGINEERING DIVISION		
GENERAL DESIGN STANDARDS		
City of Mesquite, Texas		
APPROVAL DATE	SCALE	FILE
2/01/10-L	N.T.S.	WATER SHEET THREE